

From: "Brulotte, Michel" <michel.brulotte@tc.gc.ca>

Sent: Thu 23/07/09 11:33 AM

To: <richard@aerodesign.ca>

Priority: Normal

"Oucharek, Greg"

Cc: <greg.oucharek@tc.gc.ca>, "Massicotte, Serge"
<serge.ma ...

Subject: RE: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query

Richard,

The passenger egress issue is outside my area of expertise, and I have referred it to Greg Oucharek. I suspect that he or someone else from Aircraft Certification will contact you with respect to that.

As for the requirement for flight test, in the absence of you obtaining the services of a DAR helicopter test pilot to perform the tests and prepare a report, the TC level of involvement will be to conduct a flight test on the dual basket installation.

Please let me know when the passenger egress issues have been resolved with the appropriate TC personnel, and then Serge or I will schedule a flight test of the proposed modification.

Thanks,

Michel

From: Richard [richard@aerodesign.ca]

Sent: Wed 22/07/2009 4:08 PM

To: Brulotte, Michel

Subject: Re: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query

Hi Michel,

We have reviewed the issue of normal access and impedance on emergency egress with regards to our AS350 Ski Basket and we have found the following:

1. Our basket does not interfere with either the passenger or pilot doors (see Picture 1);
2. Our basket poses no extraordinary obstacle or snags for which a person should need to overcome in the case of emergency egress;
3. Dart Aerospace has an approved AS350/AS355 Basket which is installed in manner somewhat similar to our basket (specifically, the forward end of the basket is in roughly the same location as ours - see Picture 2, sourced from the Dart Aerospace installation document). This basket is advertised as acceptable for installation on the left hand, right hand, or both sides. No limitations regarding passengers were found in the Dart Aerospace FMS for the AS350 Basket. Furthermore, there is no indication that specific access steps are required for the Dart AS350 Basket installation. The latest issue of the approval for this installation was dated May, 2003 (See SH94-14).

For our part, we are currently working on an AS350 step (see Picture 3) as a comfort item; however we do not consider this step to be a requirement for emergency egress.

We do not consider our AS350 Ski Basket installation to impede on normal access or emergency egress.

Richard

On Tue 21/07/09 10:24 AM , Richard richard@aerodesign.ca sent:

winmail.dat (5.1 Kb) attached

----- Original Message -----

From: "Brulotte, Michel" michel.brulotte@tc.gc.ca

To: richard@aerodesign.ca

Sent: Mon 20/07/09 9:35 PM

Subject: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query

winmail.dat (5.1 Kb) attached Richard,

There are a few reasons why a single basket only is allowed. One is because we only tested single baskets, the other is that the baskets do not allow proper access for passengers to get into and out of the cabin under normal conditions and could also block emergency egress.

Let me know how you want to proceed to resolve those issues, before we talk about the requirements for flight test.

Michel

From: Richard [richard@aerodesign.ca]

Sent: Mon 20/07/2009 5:05 PM

To: Brulotte, Michel

Subject: AERO Design AS350 Ski Basket - Dual Basket Installation Query

Hi Michel,

This query is with regards to our (AERO Design) AS 350 Ski Basket approved: SH08-16, NAPA: C-08-0181. You have flight-tested the various configurations of this basket installation.

We have a customer who had purchased our AS350 ski basket (the long 78401 basket). It is of the low mounted, right hand side configuration. They would like to purchase a second basket for installation on the opposite side so that they can operate with dual baskets.

Currently, we have a limitation in the RFMS (FMS764.91 - see attached) against dual basket installations. I presume this is a result of us having not flight tested a dual basket installation. I would like to open an LSTC project to approve the dual basket installation for this customer. For this project, will we need to re-flight test the basket, or could we simply revise the RFMS to state that the performance of the helicopter would likely be diminished more than already stated in the RFMS (currently: cruise and range decreased by 8% and AEO

climb reduced by up to 150 fpm)?

Your input is appreciated,

Richard Rathwell

Engineering Technologist

richard@aerodesign.ca <richard@aerodesign.ca>

P: 403-250-8027

 winmail.dat 7.6 kb

From: "Brulotte, Michel" <michel.brulotte@tc.gc.ca> - RE: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query



**Compatible
with DART
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Heli-Utility-Basket™

See
Expanded Cargo Story
Pages 8 – 9

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- Optional Pip-Pin quick release available

DIMENSIONS

Length:	96" / 2.4 m
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Load Capacity:	200 lb / 91 kg

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- Golf clubs
- Fishing gear
- Fire fighting gear
- Survey equipment
- Camping equipment
- Mining equipment
- Small packages
- Snowboards
- Luggage
- Tools

Heli-Utility-Basket™

Part Number	Description	Models
D350-607-041	Heli-Utility-Basket™ (Fits LH or RH)	AS350 / AS355

DART

From: Richard <richard@aerodesign.ca>
To: <michel.brulotte@tc.gc.ca>
Subject: Re: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query

Sent: Wed 22/07/09 4:08 PM
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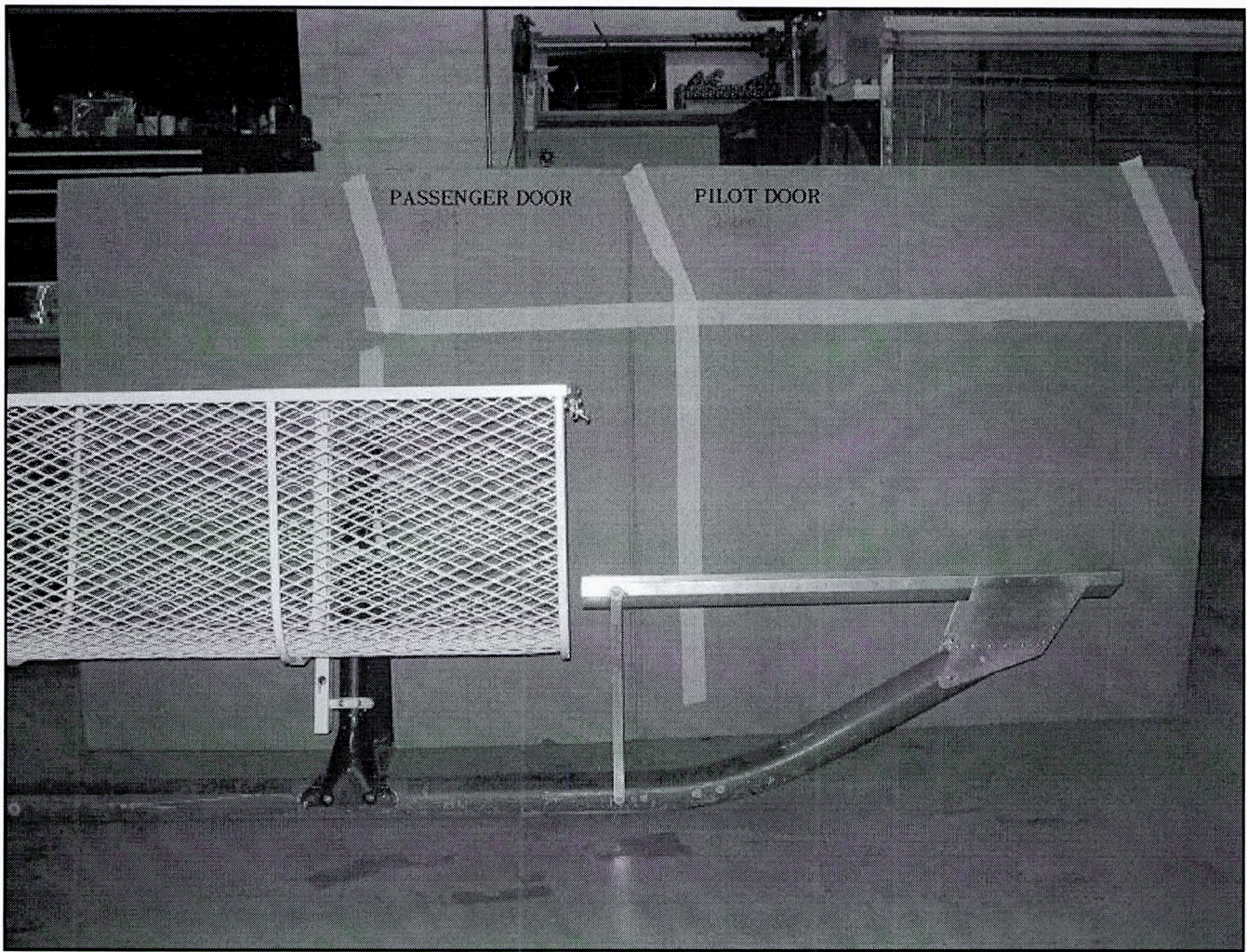
Richard Rathwell

Engineering Technologist

richard@aerodesign.ca <richard@aerodesign.ca>

P: 403-250-8027

(Picture 3 - AERO.JPG):

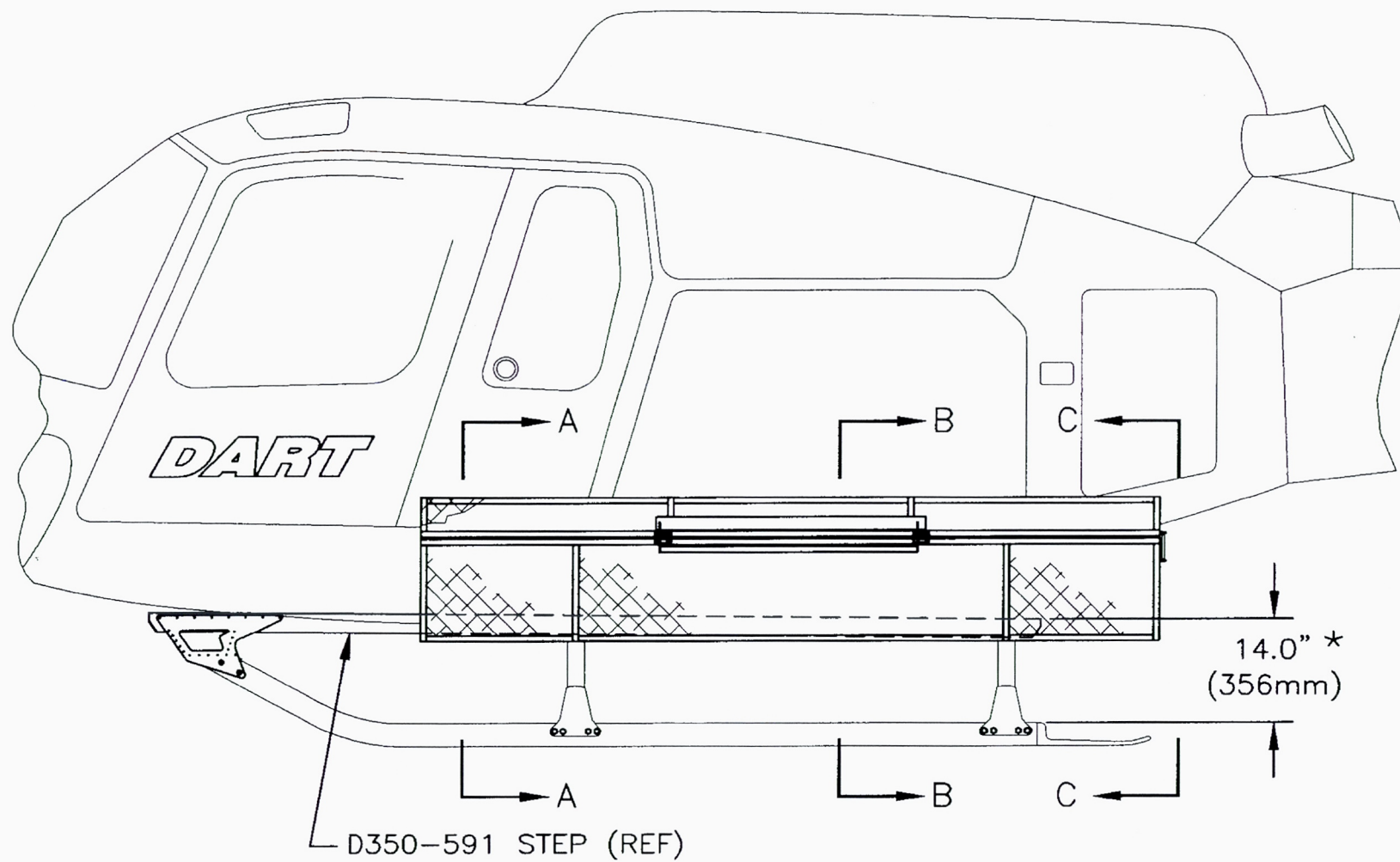


(Picture 1 - AERO.jpg):



Pictuer 2 - DART.pdf 57.3 kb

From: Richard <richard@aerodesign.ca> - Re: Fwd: RE: AERO Design AS350 Ski Basket - Dual Basket Installation Query





PASSENGER DOOR

PILOT DOOR

